



PCT

INTERNATIONAL PRELIMINARY EXAMINATION REPORT

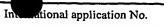
(PCT Article 36 and Rule 70)

Applicant's or agent's file reference 3121WO0P	FOR FURTHER ACTION PARTY PROPERTY					
International application No.	International filing date (days	/month/year)	Priority date (day/month/year)			
PCT/JP2003/014339	12 November 2003 (1	2.11.2003)	13 November 2002 (13.11.2002)			
International Patent Classification (IPC) or national classification and IPC C12N 15/09, C12Q 1/02, 1/68, G01N 33/15, 33/50, 33/53, C07K 14/47, A61K 31/7088, 39/395, 45/00, 48/00, A61P 3/10, 13/12						
Applicant TAK	KEDA CHEMICAL IND	USTRIES, I	TD.			
This international preliminary examinand is transmitted to the applicant act. This REPORT consists of a total of	ccording to Article 36.		national Preliminary Examining Authority			
amended and are the basis for		aining rectifica	on, claims and/or drawings which have been ations made before this Authority (see Rule			
These annexes consist of a to	otal of sheets.					
3. This report contains indications related	ting to the following items:					
I Basis of the report						
II Priority .						
III Non-establishment o	of opinion with regard to nove	lty, inventive st	ep and industrial applicability			
IV Lack of unity of inv	ention					
V Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement						
VI Certain documents cited						
VII Certain defects in th	ne international application					
VIII Certain observations on the international application						
		_				
Date of submission of the demand	Date	of completion	of this report			
11 December 2003 (11.1	2.2003)	11	June 2004 (11.06.2004)			
Name and mailing address of the IPEA/JP	Auth	orized officer				
Facsimile No.	Tele	ohone No.				

Form PCT/IPEA/409 (cover sheet) (July 1998)

Translation





PCT/JP2003/014339

	of the report
1. Wit	regard to the elements of the international application:*
	the international application as originally filed
	the description:
	pages, as originally file
	pages, filed with the deman
	pages, filed with the letter of
	the claims:
	pages
1	pages, as originally filed, as originally filed, as amended (together with any statement under Article 1)
,	pages, filed with the deman
	pages, filed with the letter of,
	the drawings:
	pages, as originally file
	pages, filed with the demand
	, fried with the fetter of
	he sequence listing part of the description:
	pages, as originally file
	pages, filed with the demand
	pages, filed with the letter of
m - 1	regard to the language, all the elements marked above were available or furnished to this Authority in the language in which ternational application was filed, unless otherwise indicated under this item. elements were available or furnished to this Authority in the following language which is the language of a translation furnished for the purposes of international search (under Rule 23.1(b)). the language of publication of the international application (under Rule 48.3(b)). the language of the translation furnished for the purposes of international preliminary examination (under Rule 55.2 and or 55.3).
3. With	regard to any nucleotide and/or amino acid sequence disclosed in the international application, the internationa ninary examination was carried out on the basis of the sequence listing:
	contained in the international application in written form.
\boxtimes	filed together with the international application in computer readable form.
	furnished subsequently to this Authority in written form.
	furnished subsequently to this Authority in computer readable form.
	The statement that the subsequently furnished written sequence listing does not go beyond the disclosure in the international application as filed has been furnished.
\boxtimes	The statement that the information recorded in computer readable form is identical to the written sequence listing has been furnished.
4. 🗌	The amendments have resulted in the cancellation of:
	the description, pages
	the claims, Nos.
	the drawings, sheets/fig
5.	This report has been established as if (some of) the amendments had not been made, since they have been considered to go beyond the disclosure as filed, as indicated in the Supplemental Box (Rule 70.2(c)).**
* Repla in thi and 7	ement sheets which have been furnished to the receiving Office in response to an invitation under Article 14 are referred to report as "originally filed" and are not annexed to this report since they do not contain amendments (Rule 70.16 .17).
** Any r	placement sheet containing such amendments must be referred to under item 1 and annexed to this report.

the entire international application. claims Nos	 Non-establishment of opinion with regard to novelty, inventive step and ind The questions whether the claimed invention appears to be novel, to involve industrially applicable have not been examined in respect of: 	an inventive etc. /to be
claims Nos		an inventive step (to be non obvious), or to be
because: State St		
the said international application, or the said claims Nos. relate to the following subject matter which does not require an international preliminary examination (speeify): The subject matters of claims 34 and 35 relate to a method for treatment of mammals including the human by prevention or therapy, which does not require an international preliminary examination by the linear season under the description, claims or drawings (indicate particular elements below) or said claims Nos. 32.33.36.37 The "TSC-22 inhibitors" of claims 32, 33, 36 and 37 are compounds obtained by screening. However, since the specification does not state any particular compounds at all as the TSC-22 inhibitors obtained by screening, the screening, the TSC-22 inhibitors are neither supported nor disclosed by the specification. Furthermore, even considering the common general technical knowledge prevailing on the filing date of the present application, what compounds are particularly included and what compounds are not included are unknown at all, and the description of the said claims is very unclear. Therefore, no significant statement can be presented with regard to the subject matters of the said claims. the claims, or said claims Nos.	claims Nos32-37	
The subject matters of claims 34 and 35 relate to a method for treatment of mammals including the human by prevention or therapy, which does not require an international preliminary examination by the International Preliminary Examining Authority. the description, claims or drawings (Indicate particular elements below) or said claims Nos	because:	
human by prevention or therapy, which does not require an international preliminary examination by the International Preliminary Examining Authority. the description, claims or drawings (indicate particular elements bolow) or said claims Nos	is subject matter which does not require an internation	34, 35
The "TSC-22 inhibitors" of claims 32, 33, 36 and 37 are compounds obtained by screening. However, since the specification does not state any particular compounds at all as the TSC-22 inhibitors obtained by screening, the TSC-22 inhibitors are neither supported nor disclosed by the specification. Furthermore, even considering the common general technical knowledge prevailing on the filing date of the present application, what compounds are particularly included and what compounds are not included are unknown at all, and the description of the said claims is very unclear. Therefore, no significant statement can be presented with regard to the subject matters of the said claims. the claims, or said claims Nos. by the description that no meaningful opinion could be formed. no international search report has been established for said claims Nos. are so inadequately supported A meaningful international preliminary examination cannot be carried out due to the failure of the nucleotide and/or amino acid sequence listing to comply with the standard provided for in Annex C of the Administrative Instructions: the written form has not been furnished or does not comply with the standard. the computer readable form has not been furnished or does not comply with the standard.	human by prevention or therapy, which does not relate to a method for tr	reatment of mammals including the all preliminary examination by the
The "TSC-22 inhibitors" of claims 32, 33, 36 and 37 are compounds obtained by screening. However, since the specification does not state any particular compounds at all as the TSC-22 inhibitors obtained by screening, the TSC-22 inhibitors are neither supported nor disclosed by the specification. Furthermore, even considering the common general technical knowledge prevailing on the filing date of the present application, what compounds are particularly included and what compounds are not included are unknown at all, and the description of the said claims is very unclear. Therefore, no significant statement can be presented with regard to the subject matters of the said claims. the claims, or said claims Nos. by the description that no meaningful opinion could be formed. no international search report has been established for said claims Nos. 32-37 A meaningful international preliminary examination cannot be carried out due to the failure of the nucleotide and/or amino acid sequence listing to comply with the standard provided for in Annex C of the Administrative Instructions: the written form has not been furnished or does not comply with the standard. the computer readable form has not been furnished or does not comply with the standard.		
no international search report has been established for said claims Nos	The "TSC-22 inhibitors" of claims 32, 33, 36 and 37 are compounds since the specification does not state any particular compounds at all as the screening, the TSC-22 inhibitors are neither supported nor disclosed by the common general technical knowledge prevailing on the support of the second state of th	ads obtained by screening. However, the TSC-22 inhibitors obtained by the specification. Furthermore, even filing date of the present application.
A meaningful international preliminary examination cannot be carried out due to the failure of the nucleotide and/or amino acid sequence listing to comply with the standard provided for in Annex C of the Administrative Instructions: the written form has not been furnished or does not comply with the standard. the computer readable form has not been furnished or does not comply with the standard.	by the description that no meaningful opinion could be formed.	
the written form has not been furnished or does not comply with the standard. the computer readable form has not been furnished or does not comply with the standard.	in international search report has been established for said claims Nos	32-37
orm PCT/IPEA/409 (Box III) (July 1998)	the written form has not been furnished or does not comply with the standard.	and dottons.
	rm PCT/IPEA/409 (Box III) (July 1998)	



n dional application No.
PCT/JP03/14339

V. Reasoned statement under Artic citations and explanations supp	le 35(2) with regard to norting such statement	ovelty, inventive step or industrial applicability;		
1. Statement				-
Novelty (N)	Claims	1-31	YES	
	Claims		NO	
. Inventive step (IS)	Claims		YES	
	Claims	1-31	NO	
Industrial applicability (IA)	Claims	1-31	YES	
	Claims		NO	

2. Citations and explanations

Document 1: US, 5958690, A (Incyte Pharm Inc.), 28 September, 1999 (28.09.99)

Document 2: "TGF-β-stimulated Clone-22 (TSC-22) Represses the Transcription of Insulin Gene," (Y. Ihara, et al.), Diabetes, 2001, Vol. 50, Sup. 2, pages A342-A343

Claims 1-31

Document 1 describes the amino acid sequence of human TSC-22 homologue.

Document 2 describes that (1) when the gene expression of a pancreatic β cell of a type II diabetes model mouse was examined to identify a gene relating to type II diabetes, the expression of TSC-22 was found to rise, and (2) since TSC-22 inhibited the transcription of insulin, TSC-22 is considered to be a gene relating to type II diabetes.

In this situation, since the amino acid sequence described in Figure 1A of document 1 agrees with the amino acid sequence represented by SEQ ID NO: 2 of the present application, a person skilled in the art could have easily conceived of (1) using the protein having the amino acid sequence of document 1 or the gene encoding the protein and (2) screening the preventives and remedies for renal diseases such as diabetes based on the description of document 2.

Furthermore, a person skilled in the art could also have easily conceived of using the antibody bound to human TSC-22 as a preventive, remedy or diagnostic drug of diseases from the descriptions of documents 1 and 2.

Therefore, a person skilled in the art could have easily arrived at the subject matters of claims 1-31 based on the descriptions of documents 1 and 2.